

Applicant: William Zahavi.
U.S.S.N.: 09/965,431
Filing Date: September 27, 2001
EMC Docket No.: EMC-01-160

REMARKS

This amendment is in response to the Office Action mailed October 21, 2005.

Claims 1-3, 5-15 and 17-37 were pending. Claims 1-3, 10-15 and 22-25 stand rejected. Claims 5-9 and 17-21 are objected to but would be allowable if rewritten in independent form. Claims 25- 37 are allowed.

The claims and drawings have been amended to address the concerns raised by the Examiner. Applicant requests reconsideration and removal of the claim rejections.

Objection to the Specification:

The disclosure has been objected for containing informalities. More specifically, the Office Actions raises the question whether the term RAID-S, on page 13, line 12 and page 16, line 22, should be RAID-5?

Applicant thanks the examiner for his observation. However, Applicant believes that the term RAID-S is the proper term, as the disclosure specifically recites that the “EMC Symmetrix employs a Raid scheme known as Raid-S, wherein a parity calculation is based on an Exclusive Or (XOR) boolean logic function.” (see page 13, lines 11-13). Furthermore, the RAID-S format is known in the art as acknowledged by the Wikipedia, The Free Encyclopedia, states “RAID-S is EMC Corporation’s proprietary striped parity RAID system used in their Symmetrix storage system.” http://en.wikipedia.org/wiki/Redundant_array_of_independent_disks.

Accordingly, Applicant believes that the term RAID-S is the proper term and elects not to amend the specification at this time.

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Having shown that the term RAID-S is correctly identified in the specification, Applicant believes that the reason for the objection has been overcome and respectfully requests that the objection be withdrawn.

Objection to the Drawings

The drawings are objected to because “there is no element ‘510’ in figure 3” (which Applicant believes to be a reference to figure 13), figures 6, 13 and 15 use the term “RAID-S,” and the reference to RAID-1 is not shown selected.

With regard to the term “RAID-S,” Applicant believes that this term is correct as shown with regard to the objection to the specification and elects not to amend the suggested figures.

With regard to the typographical error noted in Figure 13, Applicant thanks the examiner for his observation and has provided a Replacement Sheet properly annotated, in red ink, drawing of Figure 13 to show the amendment made. No new matter has been added. Support for the amendment may be found on at least page 12, lines 14-15, which state “Screen area 510 includes fields for entering Application ID, and fields for indicating ‘Active Data’, ‘Indices,’ ‘Logs,’ and ‘Inactive Data..’”

With regard to Figure 15, Applicant thanks the examiner for his observation and has provided a Replacement Sheet properly annotated, in red ink, drawing of Figure 15 to show the amendment made.

For the examiner’s convenience, a full set of Formal drawings are provided which contain the amendments made to Figures 13 and 15. No other changes have been made.

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Having amended the drawings to correct the typographical errors noted, Applicant believes that reason for the objection has been overcome and respectfully requests that the drawings be entered and the objection be withdrawn.

Applicant thanks the examiner for the indication of allowable subject matter in Claims 25-37 and 5-9 and 17-21 if written in independent form and has amended independent Claims 1 and 13 to include the subject matter recited in Claims 5 and 17, respectively.

Having amended Claims 1 and 13 to include the subject matter recited in Claims 5 and 17, respectively, Applicant believes that the independent claims are in a form that comport to the examiner's indication of allowable subject matter.

With regard to Claims 2, 3, 6-12, 14, 15, and 18-24 ultimately depend from Claims 1 and 13, respectively, and, hence, are allowable by virtue of their dependency upon an allowable base claim. Although, Claims 2, 3, 10, 11, 12, 14, 15, 14, 15, 22, 23 and 24 are not specifically referred to as being allowable, Applicant submits that these claims are allowable by virtue of their dependency upon the amended base claims.

Claim Rejections - 35 U.S.C. § 102

Claims 1-2, 10-14, and 22-24 stand rejected under 35 U.S.C. 102(b) as being anticipated by Frazier (6,078,990).

Applicant respectfully disagrees with the reason recited for rejecting the claims. As argued above Claims 1 and 13 have been amended to include the subject matter recited in Claims 5 and 17, respectively, and are in a form consistent with the examiner's indication of allowable subject matter.

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With regard to the remaining aforementioned claims, these claims depend from Claims 1 and 13, respectively. Hence these claims are also allowable by virtue of their dependency upon an allowable base claim.

For at least this reason, Applicant believes that the reason for the rejection of the aforementioned claims has been overcome and respectfully requests that the rejection be withdrawn.

Claim Rejection - 35 U.S.C. §103

Claims 3 and 15 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Frazier in view of Voight (USP no. 5,623,598).

Applicant respectfully disagrees with the reason recited for rejecting the claims. Claims 3 and 15 depend from Claims 1 and 13, respectively, which as argued above have been amended to include the subject matter recited in Claims 5 and 17, respectively, and are in a form consistent with the examiner's indication of allowable subject matter.

Accordingly, Claims 3 and 15 are also allowable by virtue of their dependency upon an allowable base claim.

For at least this reason, Applicant believes that the reason for the rejection of the aforementioned claims has been overcome and respectfully requests that the rejection be withdrawn.

In view of the foregoing, the Applicant believes that the application is in condition for allowance and respectfully request favorable reconsideration.

In the event the Examiner deems personal contact desirable in the disposition of this case, the Examiner is invited to call the undersigned attorney at (508) 293-6985.

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Please charge all fees occasioned by this submission to Deposit Account No. 05-0889.

Respectfully submitted,

Dated: November 29, 2005

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Amendments To The Drawings:

The attached sheets of drawings include changes to Figures 13 and 15.

Figure 13 has been amended to remove the label 580 and replace it with label 510, which is referred to in the written description.

Figure 15 has been amended to include an indication (a partially filled button) to indicate RAID-1 has been selected.

Attachment: Replacement Sheets
Annotated Sheets Showing Changes



13/16

Configuration Tool
File Find View Help

Disks Counting
Connection Storage Area Network

Application ID

☒ Active Data ☐ Indices

☐ Logs ☐ Inactive Data

Disks

☐ 18 GB ☐ 36 GB ☒ 50 GB ☐ 73 GB ☐ 181 GB

Performance Zone

Min. TB Needed

Protection

☒ Raid-1 ☐ Raid-S ☐ Raid-0

Physical Partitions per Disks

Usable Space in TB

Workload Characterization

IO/sec	12345	0%	100%	%	Rate/sec	Avg size	MB/sec
Random Read Hits	19	19	19	19	2345.6	4	9.16
Random Read Misses	19	19	19	19	2345.6	16	36.65
Sequential Reads	39	39	39	39	4814.6	8	37.61
Writes	23	23	23	23	2839.4	32	88.73
	100	100	100	100	12345.2		172.15

Summary

IO Activity Adjusted for Protection									
Workload index	Application ID	Data type	Number of devices	FE IOs/sec	FE MB/sec	BE IOs/sec	BE MB/sec	Remote IOs/sec	Remote IOs/sec
1		Active date		24880.4	944.3	25878	503.44		
2		Active date		12345.2	172.15	12939	251.72		
		Active date		12345.2	172.15	12939	251.72		

FIG. 13

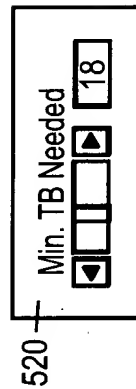
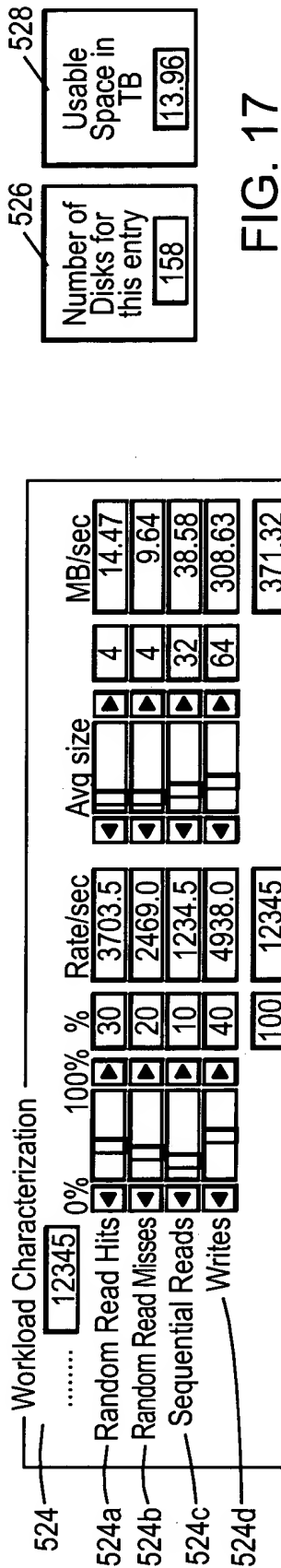


FIG. 14

